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NOTICE OF ALLOWANCE AND FEE(S) DUE

23494 7590 12/17/2008 TEXAS INSTRUMENTS INCORPORATED P O BOX 655474, M/S 3999

DALLAS, TX 75265

EXAMINER
HUNG, YUBIN
ART UNIT PAPER NUMBER
2624

DATE MAILED: 12/17/2008

09/945.295	08/31/2001	Gregory S. Pettitt	TL28576	2019
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.

TITLE OF INVENTION: AUTOMATED COLOR MATCHING FOR TILED PROJECTION SYSTEM

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/17/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NOT THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 3S U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed otl	or transmitting the 188 ig the Patent, advance of herwise in Block 1, by (orders and notification of r a) specifying a new corre	naintenance fees w pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspondence address a trate "FEE ADDRESS" fo
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23494 7590 12/17/2008 TEXAS INSTRUMENTS INCORPORATED P O BOX 655474, M/S 3999 DALLAS, TX 75265			Lhe	Cert	ificate	of Mailing or Trans	
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							(Signature)
							(Date)
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nonprovisional	NO	\$1510	\$300	\$0	_	\$1810	03/17/2009
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HUNG,	YUBIN	2624	382-167000	ı			
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3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or ty	ne)			
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSI		ified below, no assignee pletion of this form is NO	data will appear on the p T a substitute for filing an (B) RESIDENCE: (CIT)				ocument has been filed for
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Please check the appropr	iate assignee category or	categories (will not be p	rinted on the patent):	Individual 🗖 Co	rporati	on or other private gre	oup entity Government
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☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Sta	tus (from status indicate	d above)	overpayment, to Depo	sit Account Numbe	г	(enclose a	n extra copy of this form).
	s SMALL ENTITY state		a b. Applicant is no lon	ger claiming SMAL	L ENI	TITY status. See 37 C	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademan	ed from anyone other than t k Office.	he applicant; a regis	stered a	uttorney or agent; or th	ne assignee or other party in
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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TEXAS INSTRU	MENTS INCORPO	HUNG, YUBIN			
P O BOX 655474, M/S 3999			ART UNIT PAPER NUMBER		
DALLAS, TX 752	65	2624			

DATE MAILED: 12/17/2008

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 398 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 398 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)				
09/945,295	PETTITT, GREGOR	Y S.			
Examiner	Art Unit				
VURIN HUNG	2624				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to amendment filed on 11/05/08.
- The allowed claim(s) is/are 1,4-7, 9-13,16 and 18.
- Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - b) ☐ Some* c) ☐ None of the: a) \square All
 - Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. ___
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received:

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) I including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2 Notice of Draftperson's Patent Drawing Review (PTO-943).
- Information Disclosure Statements (PTO/SB/08). Paper No./Mail Date
- 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- 6 Interview Summery (PTO-413). Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other

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Art Unit: 2624

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a communication with

Applicant's representative Mr. Rodney M. Anderson on December 5, 2008.

2. The application has been amended as follows:

IN THE CLAIMS

Amend claims as indicated below (with respect to the version filed along with the

04/22/08 Appeal Brief):

· Replace claim 1 with the following:

1. A method of color matching images generated by multiple projectors of a tiled projection display

system, comprising the steps of:

providing at least two projectors, each having chromaticity data representing a color gamut of that projector stored therein, and having luminance data representing the relative luminance of colors generated by that projector stored therein;

communicating each projector's stored chromaticity and luminance data to a main controller; determining a standard color gamut achievable by each said projector;

calculating color correction data for each projector, based on that projector's <u>stored</u> chromaticity data, luminance data, and on said standard color gamut; and

calculating image pixel values based on input image data and said color correction data;

wherein said determining and calculating color correction data steps are performed by at least one component selected from the group consisting of:

> a processing system in data communication with each projector, and at least one projector functioning at least partially as the main controller.

- Claim 5, line 2: replace "the luminance data" with "the stored luminance data"
- Claim 6, line 2: replace "projector's chromaticity data" with "projector's stored chromaticity data"
- · Cancel claim 8
- Claim 11, line 1: replace "calculating calculates" with "calculating color correction data step calculates"

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Art Unit: 2624

Allowable Subject Matter

3. Claims 1, 4-7, 9-13, 16 and 18 (re-numbered as claims 1-12) as amended are

allowed.

4. The following is an examiner's statement of reasons for allowance:

Applicant arguments, see the respective second complete paragraph on pages 3 and 6 of the response filed on 11/05/08 are persuasive. Additionally, while Sato et al.

(US 7,034,842) discloses storing chrominance and luminance information in an output

device (e.g., see figures 1, 16 and 23), it does not expressly disclose, teach or fairly

suggest storing relative luminance of colors (as defined in lines 1-4 on page 7 of the

instant application; see also the last complete paragraph on page 6 in the RCE field on

02/23/06) and in that projector.

5. Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

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Art Unit: 2624

Conclusion and Contact Information

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to YUBIN HUNG whose telephone number is (571)272-

7451. The examiner can normally be reached on 7:30 - 4:00. If attempts to reach the

examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh M. Mehta

can be reached on (571) 272-7453. The fax phone number for the organization where

this application or proceeding is assigned is 571-273-8300.

7. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Yubin Hung/

Primary Examiner, Art Unit 2624